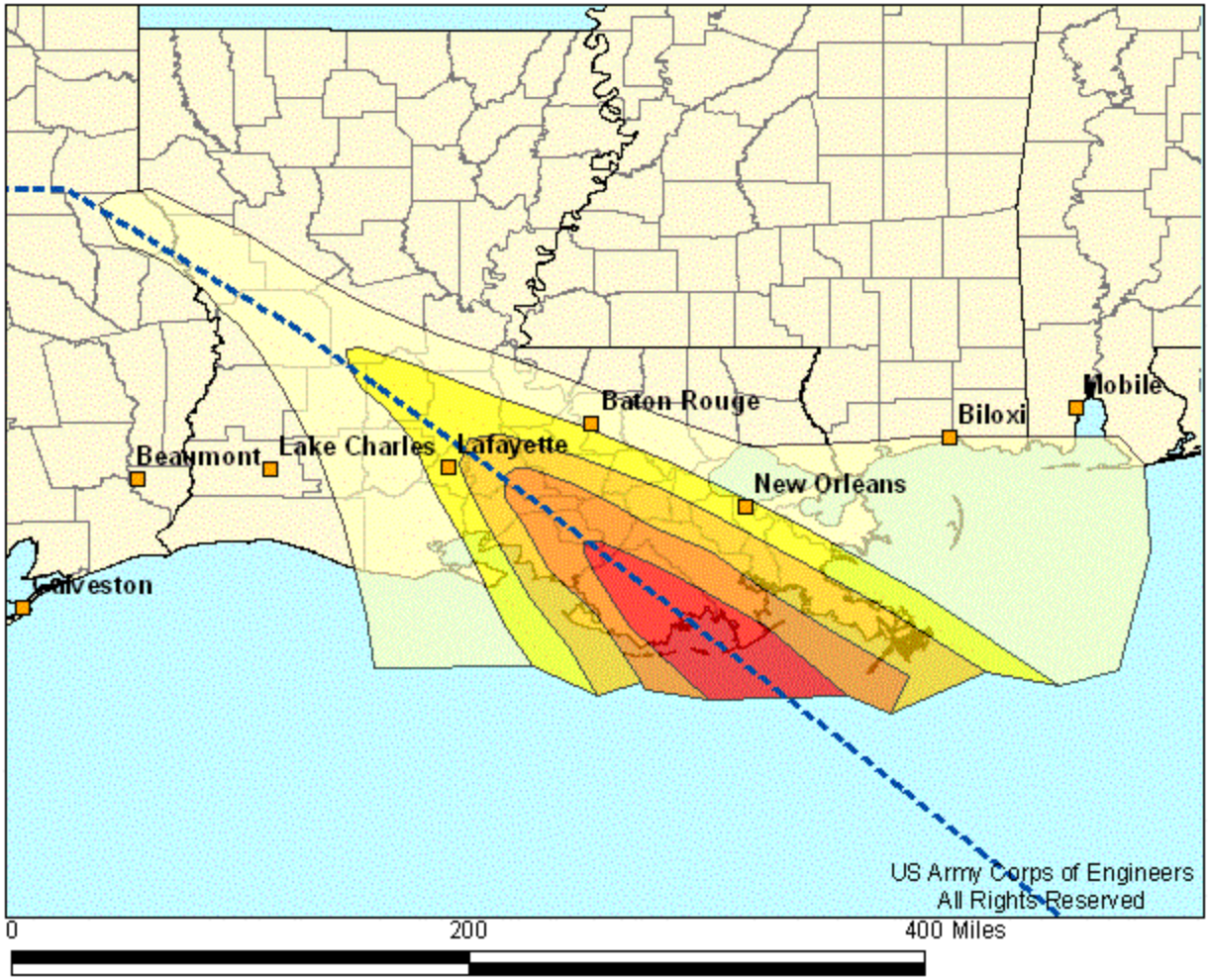
US Army Corps of Engineers

Hurricane Gustav Projected Damage Areas

Landfall Expected In About 24 Hours

For Planning Purposes Only!



Post Landfall Projected Damage Areas

This model is based on a Category 4 storm making landfall south of Houma, LA.

Forecast Track

Projected Damage Areas

- CAT 0-type damage
- CAT 1-type damage
- CAT 2-type damage
- CAT 3-type damage
- CAT 4-type damage
- CAT 5-type damage

Information provided on this page displays a Category 4 storm making landfall south of Houma, LA. These projections are based on information from the NHC (1100 EDT 08/31/2008) forecast.

Details about this model may be obtained at http://www.englink.usace.army.mil or contact Louisville District staff at DLL-CELRL-GIS@usace.army.mil

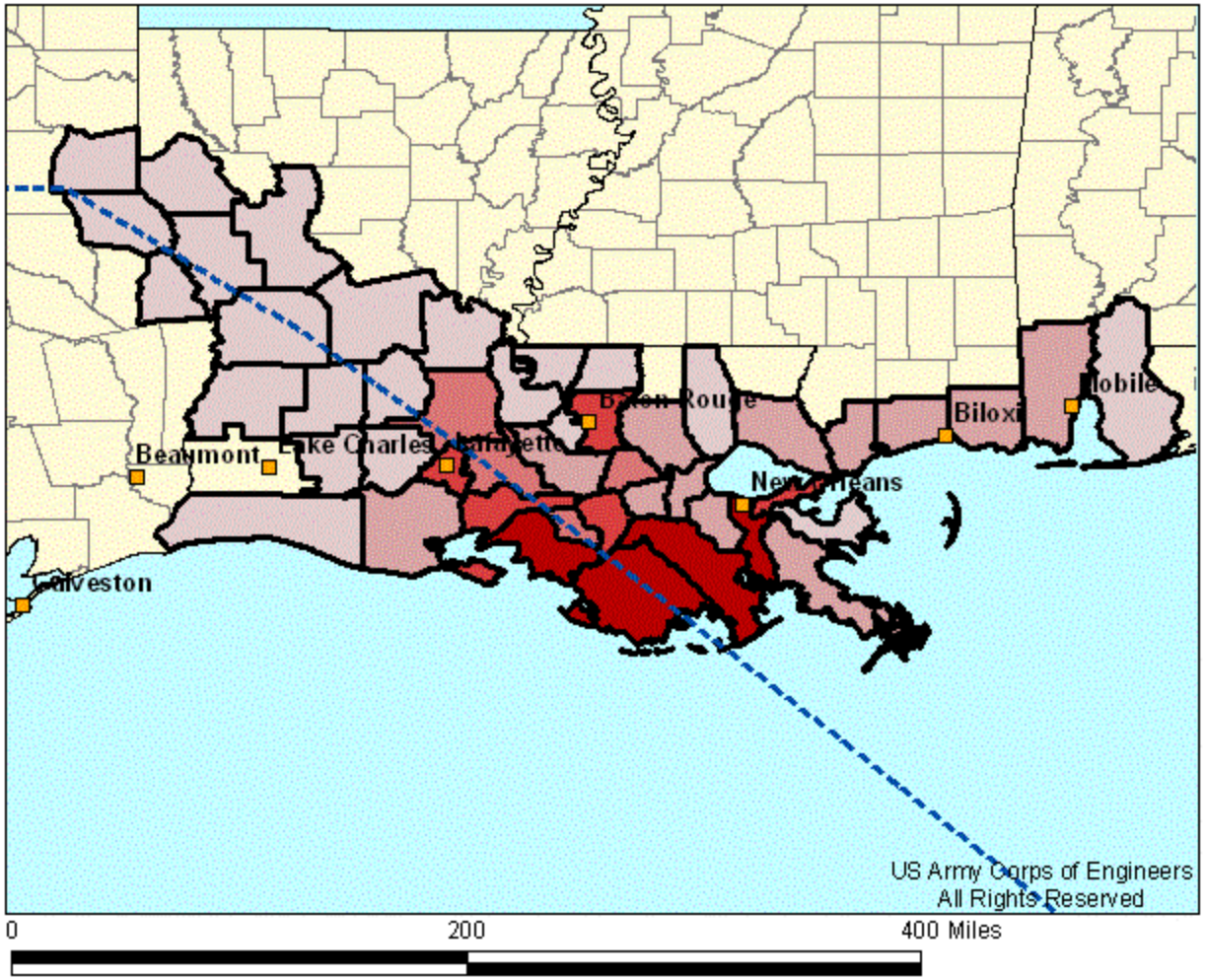
Hurricane Gustav Projected Damage Areas	
Generated By: Siemsen, LRL 1130 EDT 08/31/2008	
Sources: HURREVAC LRL-DEBRIS	Page 1 of 13

US Army Corps of Engineers

Hurricane Gustav Debris Model

Landfall Expected In About **24** Hours

For Planning Purposes Only!



Post Landfall Debris Model Results

Louisiana - 16,847,000 Yards
Mississippi - 491,000 Yards
Alabama - 193,000 Yards
Texas - 42,000 Yards

Model results per County on following page

This model is based on a Category 4 storm making landfall south of Houma, LA.

Forecast Track

Debris

- < 100,000 cubic yards
- 100,000 - 249,999 cubic yards
- 250,000 - 499,999 cubic yards
- 500,000 - 999,999 cubic yards
- >1,000,000 cubic yards

Information provided on this page displays a Category 4 storm making landfall south of Houma, LA. These projections are based on information from the NHC (1100 EDT 08/31/2008) forecast. The amount of debris forecasted is possible total volume, not necessarily the volume that may need to be removed with Federal funds, but does not include volume that may be covered by private insurance. Debris volume may include storm surge generated debris.

Details about this model may be obtained at http://www.englink.usace.army.mil
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Hurricane Gustav Debris Model	
Generated By: Siemsen, LRL 1130 EDT 08/31/2008	
Sources: HURREVAC LRL-DEBRIS	Page 2 of 13

US Army Corps of Engineers

Hurricane Gustav Debris Model

Landfall Expected In About 24 Hours

For Planning Purposes Only!

State	Yards per State	County	Yards per County
Alabama		Baldwin	79,000
		Mobile	114,000
Alabama	193,000		
Louisiana		Acadia	94,000
		Allen	50,000
		Ascension	304,000
		Assumption	540,000
		Avoyelles	30,000
		Beauregard	18,000
		Cameron	13,000
		De Soto	3,000
		East Baton Rouge	882,000
		East Feliciana	3,000
		Evangeline	98,000
		Iberia	879,000
		Iberville	236,000
		Jefferson	1,331,000
		Jefferson Davis	43,000
		Lafayette	895,000
		Lafourche	2,650,000
		Livingston	137,000
		Natchitoches	19,000
		Orleans	629,000
		Plaquemines	137,000
		Pointe Coupee	41,000
		Rapides	38,000
		Sabine	53,000
		St Bernard	35,000
		St Charles	221,000
		St James	131,000

State	Yards per State	County	Yards per County
Louisiana		St John the Baptist	125,000
(continued)		St Landry	359,000
		St Martin	474,000
		St Mary	1,957,000
		St Tammany	221,000
		Tangipahoa	64,000
		Terrebonne	3,885,000
		Vermilion	119,000
		Vernon	75,000
		West Baton Rouge	51,000
		West Feliciana	7,000
Louisiana	16,847,000		
Mississippi		Hancock	152,000
		Harrison	195,000
		Jackson	144,000
Mississippi	491,000		
Texas		Panola	< 1,000
		Sabine	2,000
		Shelby	40,000
Texas	42,000		

The amount of debris forecasted is possible total volume, not necessarily the volume that may need to be removed with Federal funds, but does not include volume that may be covered by private insurance. Debris volume may include storm surge generated debris.

Details about this model may be obtained at http://www.englink.usace.army.mil or contact Louisville District staff at DLL-CELRL-GIS@usace.army.mil

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Hurricane Gustav Debris Model

Generated By:
Siemsen, LRL 1130 EDT 08/31/2008

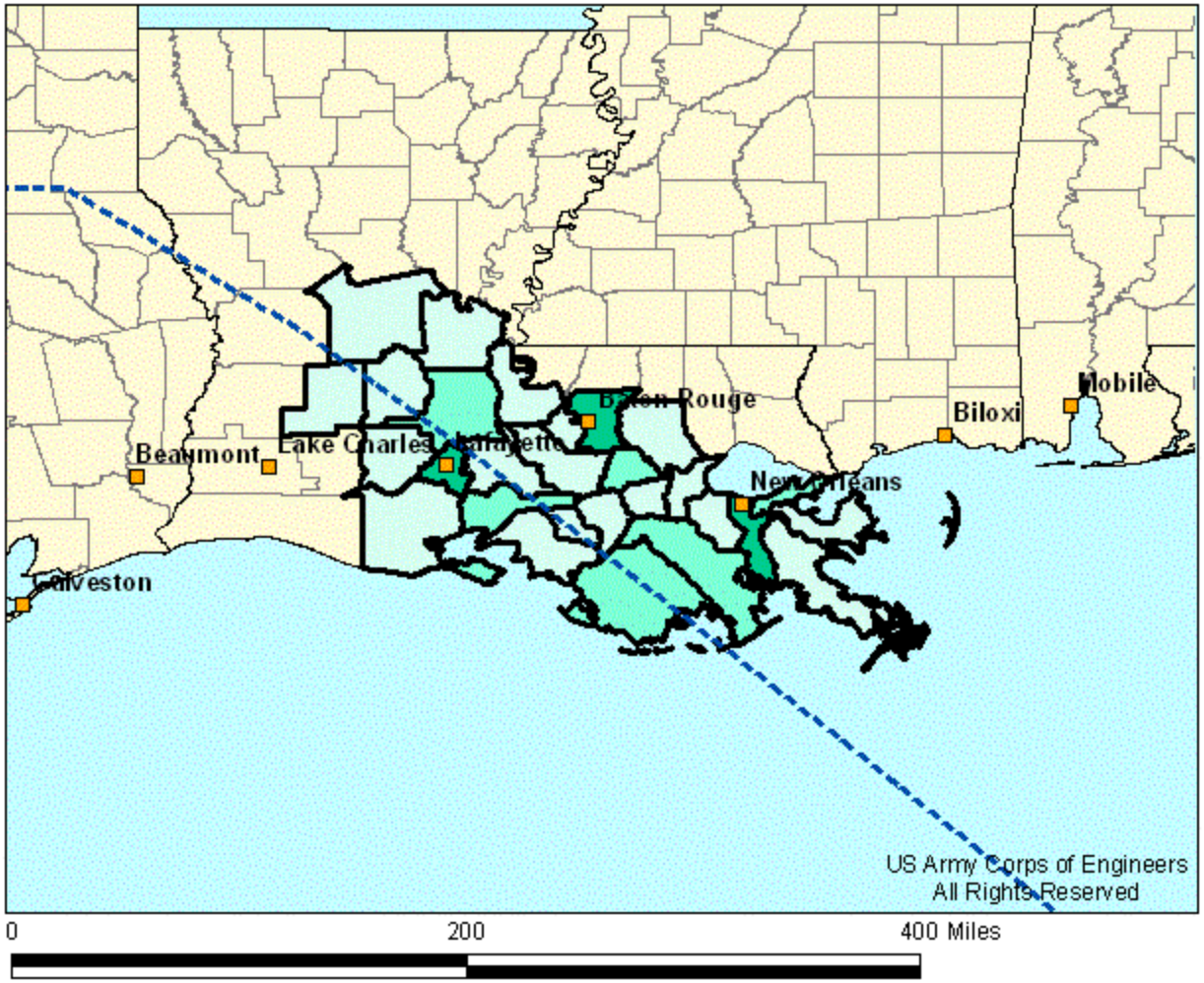
Sources:
HURREVAC
LRL-DEBRIS

US Army Corps of Engineers

Hurricane Gustav Commodities Model

Landfall Expected In About **24** Hours

For Planning Purposes Only!



Post Landfall Water Model Results

Day One / Day Two / Day Three
Louisiana – 28/57/114 Truckloads

Model results per County on following page

This model is based on a Category 4 storm making landfall south of Houma, LA.

Forecast Track

Commodities

- < 5 Trucks Each
- 5 - 10 Trucks Each
- 11 - 20 Trucks Each
- 21 - 40 Trucks Each
- > 40 Trucks Each

Information provided on this page displays a Category 4 storm making landfall south of Houma, LA. These projections are based on information from the NHC ***(1100 EDT 08/31/2008)*** forecast. The amount of commodities forecasted is based on Mission Guide Book requirements and SME input. The graphic represents single day needs with full distribution system in place and operating.

Details about this model may be obtained at http://www.englink.usace.army.mil
or contact Louisville District staff at DLL-CELRL-GIS@usace.army.mil

Hurricane Gustav Commodities Model	
Generated By: Siemsen, LRL 1130 EDT 08/31/2008	
Sources: HURREVAC LRL-DEBRIS	Page 4 of 13

US Army Corps of Engineers

Hurricane Gustav Commodities Model

Landfall Expected In About **24** Hours

For Planning Purposes Only!

State	Truckloads per State	County	Truckloads per County
Louisiana		Acadia	1
		Allen	1
		Ascension	6
		Assumption	2
		Avoyelles	1
		East Baton Rouge	12
		Evangeline	2
		Iberia	5
		Iberville	2
		Jefferson	19
		Lafayette	12
		Lafourche	6
		Livingston	1
		Orleans	8
		Plaquemines	2
		Pointe Coupee	1
		Rapides	1
		St Bernard	1
		St Charles	4
		St James	2
		St John the Baptist	3
		St Landry	5
		St Martin	4
		St Mary	3
		Terrebonne	7
		Vermilion	1
		West Baton Rouge	2
Louisiana	114		

The amount of commodities forecasted is based on Mission Guide Book requirements and SME input and the above table indicates suggested needs based on phased deployment of a commodities distribution system.

Details about this model may be obtained at http://www.englink.usace.army.mil
or contact Louisville District staff at DLL-CELRL-GIS@usace.army.mil

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Hurricane Gustav Commodities Model

Generated By:
Siemsen, LRL 1130 EDT 08/31/2008

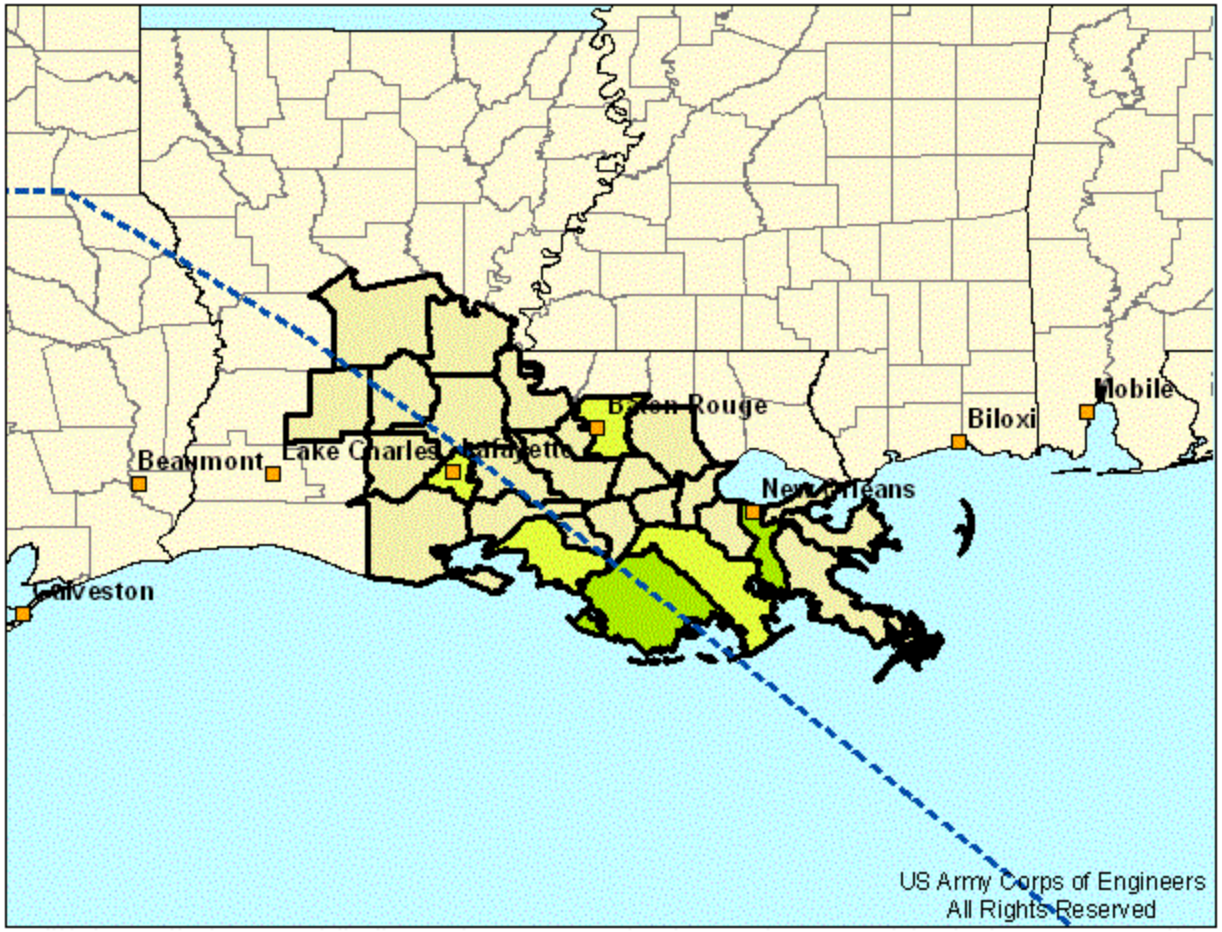
Sources:
HURREVAC
LRL-DEBRIS

Hurricane Gustav Temporary Roofing Model

US Army Corps of Engineers

Landfall Expected In About 24 Hours

For Planning Purposes Only!



Post Landfall Temporary Roofing Model Results

Louisiana - 31,600

Model results per County on following page

This model is based on a Category 4 storm making landfall south of Houma, LA.

Forecast Track

Temporary Roofing

- < 2,000 units
- 2,000 - 3,999 units
- 4,000 - 5,999 units
- 6,000 - 9,999 units
- > 10,000 units

Information provided on this page displays a Category 4 storm making landfall south of Houma, LA. These projections are based on information from the NHC (1100 EDT 08/31/2008) forecast. Temporary roofing is based on 3% in CAT 1, 6% in CAT 2, 11% in CAT 3 and 16% in CAT 4.

Details about this model may be obtained at http://www.englinkusace.army.mil or contact Louisville District staff at DLL-CELRL-GIS@usace.army.mil

Hurricane Gustav Roofing Model	
Generated By: Siemsen, LRL 1130 EDT 08/31/2008	
Sources: HURREVAC LRL-DEBRIS	Page 6 of 13

US Army Corps of Engineers

Hurricane Gustav Temporary Roofing Model

Landfall Expected In About 24 Hours

For Planning Purposes Only!

State	House Units per State	County	House Units per County
Louisiana		Acadia	200
		Allen	< 100
		Ascension	1,300
		Assumption	900
		Avoyelles	< 100
		East Baton Rouge	2,400
		Evangeline	400
		Iberia	1,700
		Iberville	600
		Jefferson	4,300
		Lafayette	2,700
		Lafourche	3,600
		Livingston	< 100
		Orleans	1,600
		Plaquemines	400
		Pointe Coupee	< 100
		Rapides	< 100
		St Bernard	< 100
		St Charles	800
		St James	400
		St John the Baptist	500
		St Landry	900
		St Martin	1,200
		St Mary	2,300
		Terrebonne	4,900
		Vermilion	200
		West Baton Rouge	300
Louisiana	31,600		

Temporary roofing is based on 3% in CAT 1, 6% in CAT 2, 11 % in CAT 3 and 16% in CAT 4.

Details about this model may be obtained at http://www.englink.usace.army.mil
or contact Louisville District staff at DLL-CELRL-GIS@usace.army.mil

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Hurricane Gustav Roofing Model

Generated By:
Siemsen, LRL 1130 EDT 08/31/2008

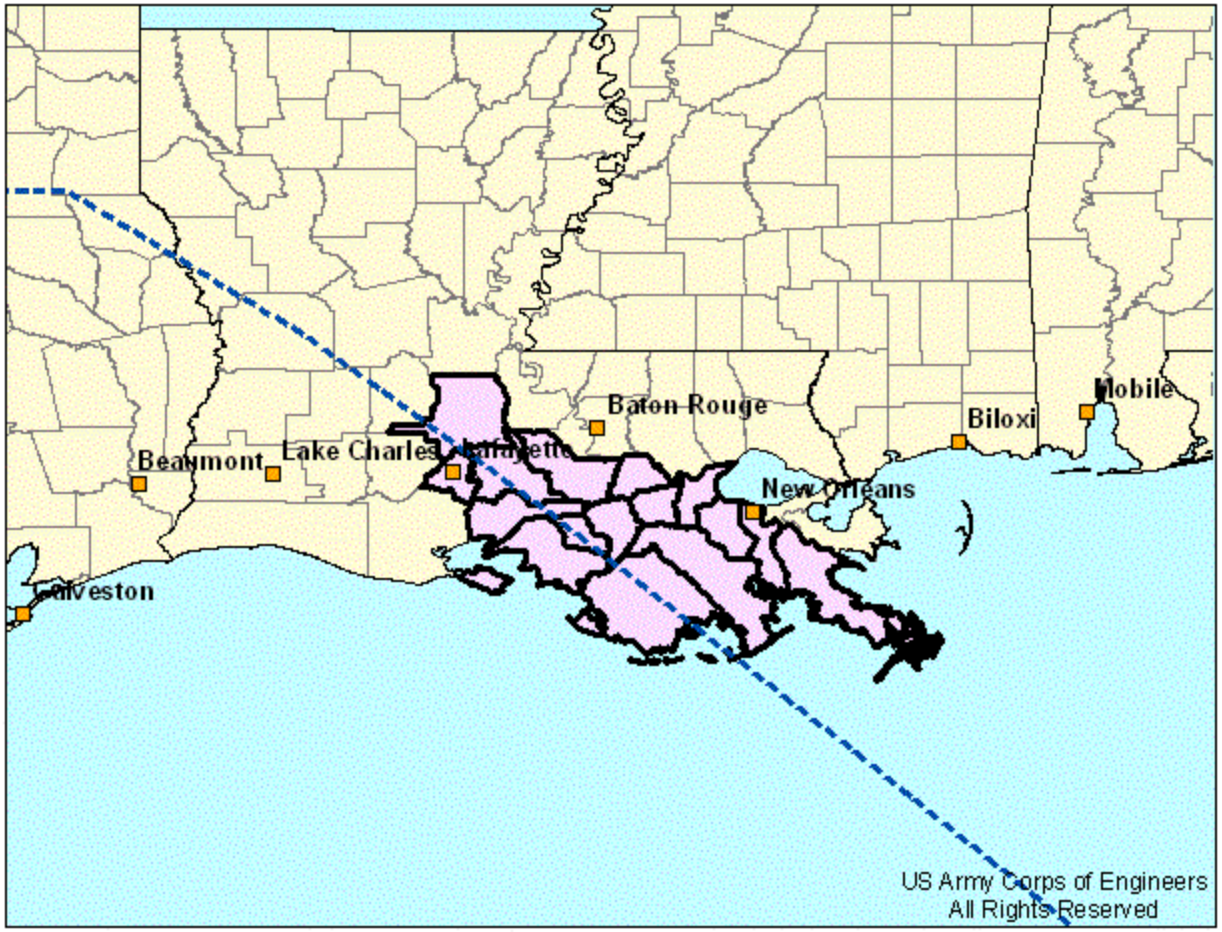
Sources:
HURREVAC
LRL-DEBRIS

US Army Corps of Engineers

Hurricane Gustav Temporary Housing Model

Landfall Expected In About 24 Hours

For Planning Purposes Only!



Post Landfall Temporary Housing Model Results

Louisiana - 3,100

Model results per County on following page

This model is based on a Category 4 storm making landfall south of Houma, LA.

Forecast Track

Temporary Housing

- < 2,000 units
- 2,000 - 3,999 units
- 4,000 - 5,999 units
- 6,000 - 9,999 units
- > 10,000 units

Information provided on this page displays a Category 4 storm making landfall south of Houma, LA. These projections are based on information from the NHC (1100 EDT 08/31/2008) forecast. Temporary housing is based on 1% in CAT 2, 2% in CAT 3 and 4% in CAT 4.

Details about this model may be obtained at http://www.englink.usace.army.mil or contact Louisville District staff at DLL-CELRL-GIS@usace.army.mil

Hurricane Gustav Housing Model	
Generated By: Siemsen, LRL 1130 EDT 08/31/2008	
Sources: HURREVAC LRL-DEBRIS	

US Army Corps of Engineers

Hurricane Gustav Temporary Housing Model

Landfall Expected In About 24 Hours

For Planning Purposes Only!

State	House Units per State	County	House Units per County
Louisiana		Ascension	< 100
		Assumption	200
		Iberia	300
		Iberville	< 100
		Jefferson	< 100
		Lafayette	200
		Lafourche	700
		Plaquemines	< 100
		St Charles	< 100
		St James	< 100
		St John the Baptist	< 100
		St Landry	< 100
		St Martin	200
		St Mary	500
		Terrebonne	1,000
Louisiana	3,100		

Temporary housing is based on 1% in CAT 2, 2% in CAT 3 and 4% in CAT 4.

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Hurricane Gustav Housing Model

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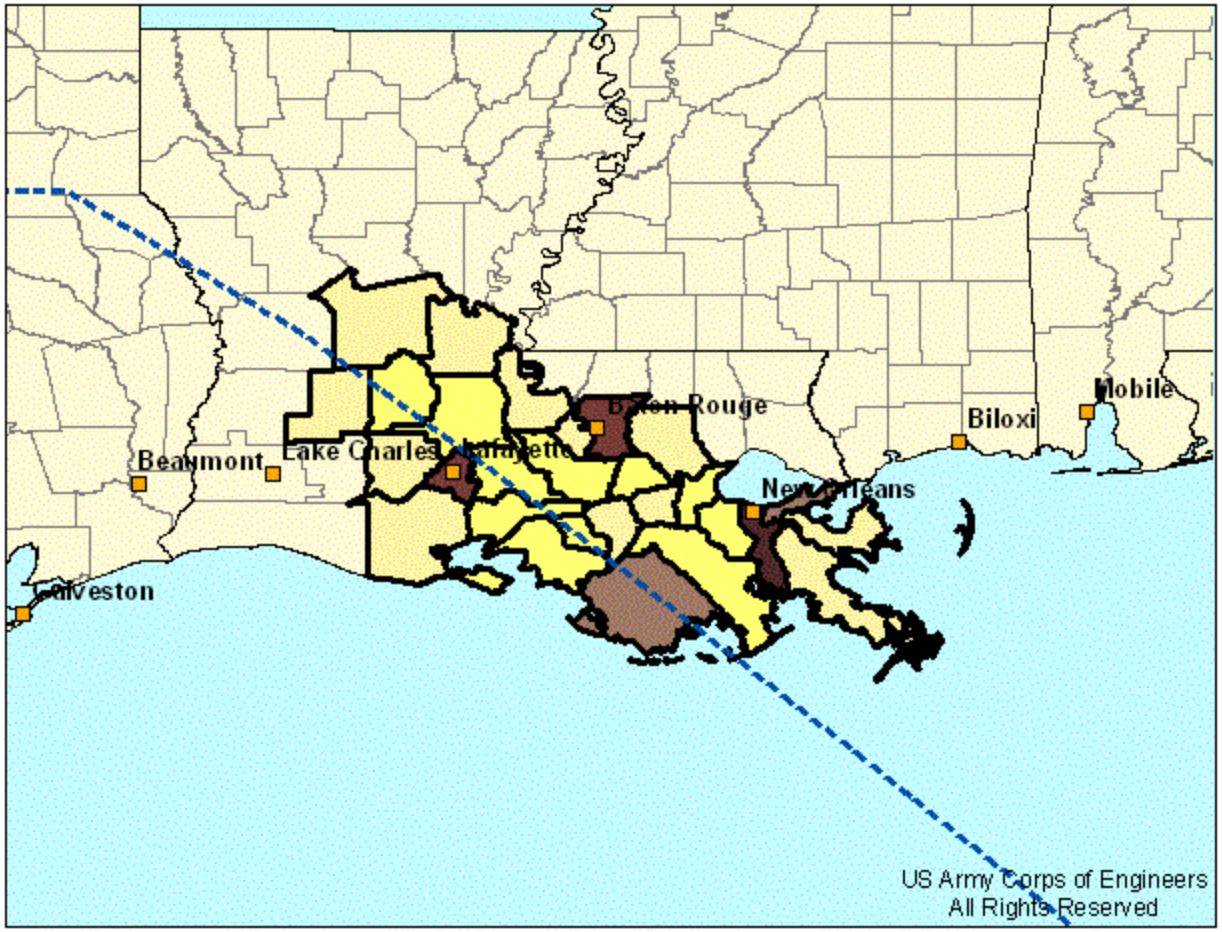
Sources:
HURREVAC
LRL-DEBRIS

US Army Corps of Engineers

Hurricane Gustav Population Model

Landfall Expected In About 24 Hours

For Planning Purposes Only!



Post Landfall Population Model Results

Louisiana - 1,776,000

Model results per County on following page

This model is based on a Category 4 storm making landfall south of Houma, LA.

Forecast Track

Population

- < 25,000 persons
- 25,000 - 99,999 persons
- 100,000 - 174,999 persons
- 175,000 - 249,999 persons
- > 250,000 persons

Information provided on this page displays a Category 4 storm making landfall south of Houma, LA. These projections are based on information from the NHC (1100 EDT 08/31/2008) forecast. The numbers of persons included in this model output are those that would be included within estimated hurricane force winds (Census 2000 values adjusted to July 2007 values).

Details about this model may be obtained at http://www.englinkusace.army.mil or contact Louisville District staff at DLL-CELRL-GIS@usace.army.mil

Hurricane Gustav Population Model	
Generated By: Siemsen, LRL 1130 EDT 08/31/2008	
Sources: HURREVAC LRL-DEBRIS	Page 10 of 13

US Army Corps of Engineers

Hurricane Gustav Population Model

Landfall Expected In About 24 Hours

For Planning Purposes Only!

State	Population per State	County	Population per County
Louisiana		Acadia	15,000
		Allen	9,000
		Ascension	100,000
		Assumption	23,000
		Avoyelles	< 1,000
		East Baton Rouge	195,000
		Evangeline	30,000
		Iberia	76,000
		Iberville	33,000
		Jefferson	388,000
		Lafayette	204,000
		Lafourche	93,000
		Livingston	5,000
		Orleans	125,000
		Plaquemines	22,000
		Pointe Coupee	6,000
		Rapides	3,000
		St Bernard	3,000
		St Charles	52,000
		St James	22,000
		St John the Baptist	47,000
		St Landry	76,000
		St Martin	52,000
		St Mary	52,000
		Terrebonne	109,000
		Vermilion	15,000
		West Baton Rouge	21,000
Louisiana	1,776,000		

The number of persons estimated to be within the hurricane force winds comes from Census 2000 values adjusted to July 2007 values.

Details about this model may be obtained at http://www.englink.usace.army.mil
or contact Louisville District staff at DLL-CELRL-GIS@usace.army.mil

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Hurricane Gustav Population Model

Generated By:
Siemsen, LRL 1130 EDT 08/31/2008

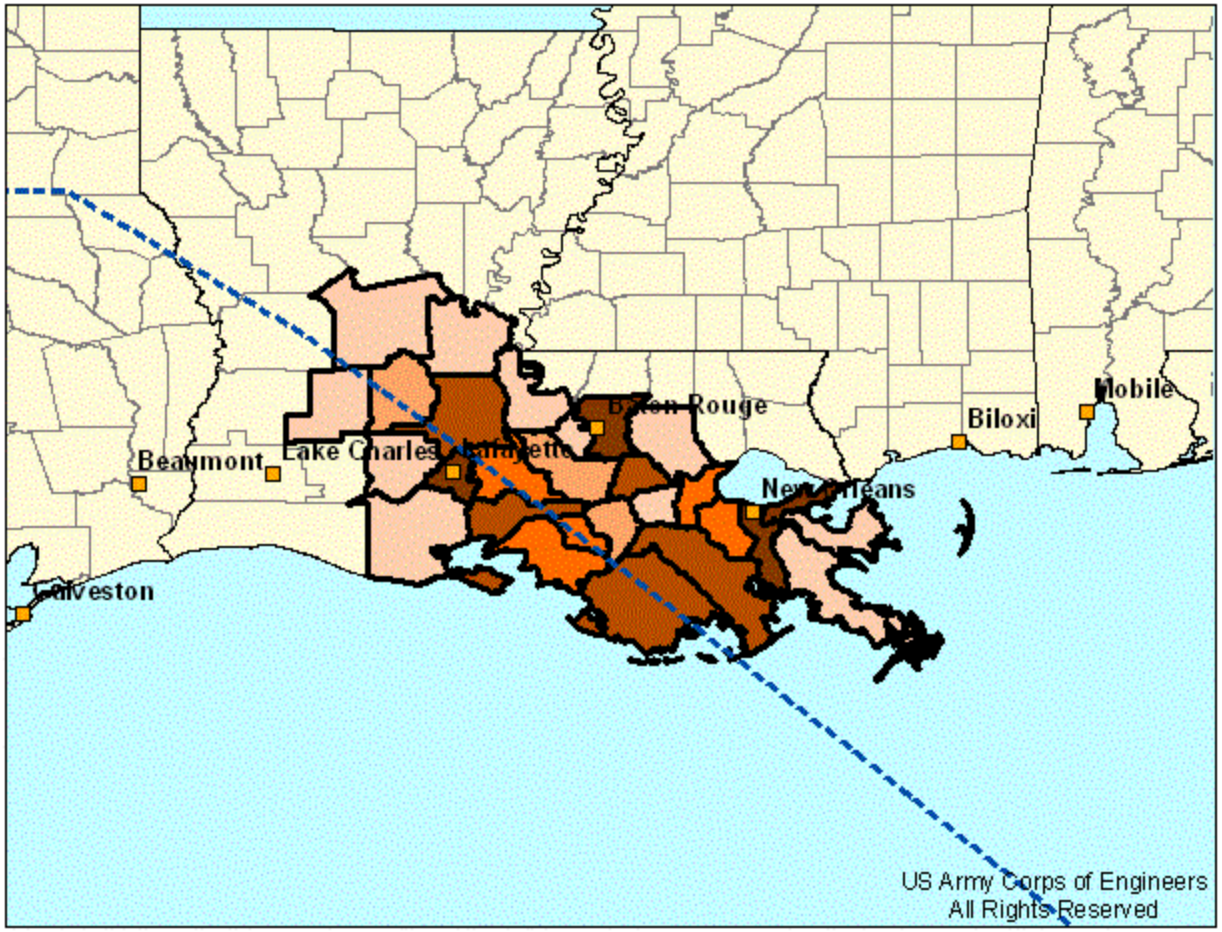
Sources:
HURREVAC
LRL-DEBRIS

US Army Corps of Engineers

Hurricane Gustav Households Model

Landfall Expected In About 24 Hours

For Planning Purposes Only!



Post Landfall Households Model Results

Louisiana - 669,000

Model results per County on following page

This model is based on a Category 4 storm making landfall south of Houma, LA.

Forecast Track

Households

- < 7,500 households
- 7,500 - 14,999 households
- 15,000 - 24,999 households
- 25,000 - 49,999 households
- > 50000 households

Information provided on this page displays a Category 4 storm making landfall south of Houma, LA. These projections are based on information from the NHC (1100 EDT 08/31/2008) forecast. The numbers of households included in this model output are those that would be included within estimated hurricane force winds (Census 2000 values adjusted to July 2007 values).

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Hurricane Gustav Households Model	
Generated By: Siemsen, LRL 1130 EDT 08/31/2008	
Sources: HURREVAC LRL-DEBRIS	

US Army Corps of Engineers

Hurricane Gustav Households Model

Landfall Expected In About **24** Hours

For Planning Purposes Only!

State	Households per State	County	Households per County
Louisiana		Acadia	6,000
		Allen	3,000
		Ascension	35,000
		Assumption	9,000
		Avoyelles	< 1,000
		East Baton Rouge	80,000
		Evangeline	12,000
		Iberia	27,000
		Iberville	11,000
		Jefferson	150,000
		Lafayette	78,000
		Lafourche	34,000
		Livingston	2,000
		Orleans	51,000
		Plaquemines	8,000
		Pointe Coupee	3,000
		Rapides	< 1,000
		St Bernard	< 1,000
		St Charles	18,000
		St James	8,000
		St John the Baptist	16,000
		St Landry	28,000
		St Martin	19,000
		St Mary	19,000
		Terrebonne	38,000
		Vermilion	6,000
		West Baton Rouge	8,000
Louisiana	669,000		

The number of households estimated to be within the hurricane force winds comes from Census 2000 values adjusted to July 2007 values.

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Hurricane Gustav Households Model

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LRL-DEBRIS